



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/610,551C

DATE: 08/18/2004

TIME: 10:08:26

Input Set : A:\TSRI 409.1D2.txt

Output Set: N:\CRF4\08182004\I610551C.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: Barbas, Carlos F, III
 7 Burton, Dennis R
 8 Lerner, Richard A

10 (ii) TITLE OF INVENTION: METHODS FOR PRODUCING ANTIBODY LIBRARIES
 11 USING UNIVERSAL OR RANDOMIZED IMMUNOGLOBULIN LIGHT CHAINS

13 (iii) NUMBER OF SEQUENCES: 74

15 (iv) CORRESPONDENCE ADDRESS:

16 (A) ADDRESSEE: The Scripps Research Institute
 17 (B) STREET: 10550 North Torrey Pines Road, TPC8
 18 (C) CITY: La Jolla
 19 (D) STATE: CA
 20 (E) COUNTRY: USA
 21 (F) ZIP: 92037

23 (v) COMPUTER READABLE FORM:

24 (A) MEDIUM TYPE: Floppy disk
 25 (B) COMPUTER: IBM PC compatible
 26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 27 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

29 (vi) CURRENT APPLICATION DATA:

30 (A) APPLICATION NUMBER: US/09/610,551C
 31 (B) FILING DATE: 05-Jul-2000
 32 (C) CLASSIFICATION:

46 (vii) PRIOR APPLICATION DATA:

35 (A) APPLICATION NUMBER: US 07/826,623
 36 (B) FILING DATE: 27-JAN-1992
 39 (A) APPLICATION NUMBER: US 08/174,674
 40 (B) FILING DATE: 28-DEC-1993
 43 (A) APPLICATION NUMBER: US 08/300,386
 44 (B) FILING DATE: 02-SEP-1994
 47 (A) APPLICATION NUMBER: US 08/931,645
 48 (B) FILING DATE: 16-SEP-1997

50 (viii) ATTORNEY/AGENT INFORMATION:

51 (A) NAME: Fitting, Thomas
 52 (B) REGISTRATION NUMBER: 34,163
 53 (C) REFERENCE/DOCKET NUMBER: TSRI 409.1

55 (ix) TELECOMMUNICATION INFORMATION:

56 (A) TELEPHONE: 858-784-2937
 57 (B) TELEFAX: 858-784-9399

60 (2) INFORMATION FOR SEQ ID NO: 1:

62 (i) SEQUENCE CHARACTERISTICS:
 63 (A) LENGTH: 687 base pairs



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64 (B) TYPE: nucleic acid
 65 (C) STRANDEDNESS: single
 66 (D) TOPOLOGY: linear
 68 (ii) MOLECULE TYPE: cDNA
 70 (iii) HYPOTHETICAL: NO
 72 (iv) ANTI-SENSE: NO
 76 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 78 CTCGAGCAGT CTGGGGCTGA GGTGAAGAAG CCTGGGTCTC CCGTGAAGGT CTCCTGCAGG 60
 80 GCTTCTGGAG GCACCTTCAA CAATTATGCC ATCAGCTGGG TGCGACAGGC CCCTGGACAA 120
 82 GGGCTTGAGT GGATGGGAGG GATCTTCCCT TTCCGTAATA CAGCAAAGTA CGCACAAACAC 180
 84 TTCCAGGGCA GAGTCACCAT TACCGCGGAC GAATCCACGG GCACAGCTA CATGGAGCTG 240
 86 AGCAGCCTGA GATCTGAGGA CACGGCCATA TATTATTGTG CGAGAGGGGA TACGATTTTT 300
 88 GGAGTGCACCA TGGGATACTA CGCTATGGAC GTCTGGGGCC AAGGGACAC GGTACCGTC 360
 90 TCCGCAGCCT CCACCAAGGG CCCATCGGT TTCCCCCTGG CACCCCTCTC CAAGAGCACC 420
 92 TCTGGGGGCA CAGCGGCCCT GGGCTGCCTG GTCAAGGACT ACTTCCCCGA ACCGGTGACG 480
 94 GTGTCGTGGA ACTCAGGCGC CCTGACCAGC GGCCTGCACA CCTTCCCGGC TGTCTACAG 540
 96 TCCTCAGGAC TCTACTCCCT CAGCAGCGTG GTGACCGTGC CCTCCAGCAG CTTGGGCACC 600
 98 CAGACCTACA TCTGCAACGT GAATCACAAG CCCAGCAACA CCAAGGTGGA CAAGAAAGCA 660
 100 GAGCCCAAAT CTTGTGACAA AACTAGT 687
 102 (2) INFORMATION FOR SEQ ID NO: 2:
 104 (i) SEQUENCE CHARACTERISTICS:
 105 (A) LENGTH: 646 base pairs
 106 (B) TYPE: nucleic acid
 107 (C) STRANDEDNESS: single
 108 (D) TOPOLOGY: linear
 110 (ii) MOLECULE TYPE: cDNA
 112 (iii) HYPOTHETICAL: NO
 114 (iv) ANTI-SENSE: NO
 118 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
 120 GAGCTCACGC AGTCTCCAGG CACCCTGTCT TTGTCTCCAG GGGAAAGAGC CACCCCTCTCC 60
 122 TGCAGGGCCA GTCACAGTGT TAGCAGGCC TACTTAGCCT GGTACCAAGCA GAAACCTGGC 120
 124 CAGGCTCCCA GGCTCCTCAT CTATGGTACA TCCAGCAGGG CCACTGGCAT CCCAGACAGG 180
 126 TCCAGTGGCA GTGGGTCTGG GACAGACTTC ACTCTCACCA TCAGCAGACT GGAGCCTGAA 240
 128 GATTTGCAG TGTACTACTG TCAGCAGTAT GGTGGCTCAC CGTGGTTCGG CCAAGGGACC 300
 130 AAGGTGGAAC TCAAACGAAC TGTGGCTGCA CCATCTGTCT TCATCTTCCC GCCATCTGAT 360
 132 GAGCAGTTGA AATCTGGAAC TGCCTCTGTT GTGTGCCTGC TGAATAACTT CTATCCCAGA 420
 134 GAGGCCAAAG TACAGTGGAA GGTGGATAAC GCCCTCCAAT CGGGTAACTC CCAGGAGAGT 480
 136 GTCACAGAGC AGGACAGCAA GGACAGCACC TACAGCCTCA GCAGCACCT GACGCTGAGC 540
 138 AAAGCAGACT ACGAGAAACA CAAAGTCTAC GCCTGCGAAG TCACCCATCA GGGCCTGAGT 600
 140 TCGCCCGTCA CAAAGAGCTT CAACAGGGGA GAGTGTAAAT TCTAGA 646
 142 (2) INFORMATION FOR SEQ ID NO: 3:
 144 (i) SEQUENCE CHARACTERISTICS:
 145 (A) LENGTH: 21 base pairs
 146 (B) TYPE: nucleic acid
 147 (C) STRANDEDNESS: single
 148 (D) TOPOLOGY: linear
 150 (ii) MOLECULE TYPE: cDNA
 152 (iii) HYPOTHETICAL: NO
 154 (iv) ANTI-SENSE: NO

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158 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
 160 GAATTCTAAA CTAGCTAGTC G 21
 162 (2) INFORMATION FOR SEQ ID NO: 4:
 164 (i) SEQUENCE CHARACTERISTICS:
 165 (A) LENGTH: 21 base pairs
 166 (B) TYPE: nucleic acid
 167 (C) STRANDEDNESS: single
 168 (D) TOPOLOGY: linear
 170 (ii) MOLECULE TYPE: cDNA
 172 (iii) HYPOTHETICAL: NO
 174 (iv) ANTI-SENSE: YES
 178 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
 180 ATACTGCTGA CAGTAATACA C 21
 182 (2) INFORMATION FOR SEQ ID NO: 5:
 184 (i) SEQUENCE CHARACTERISTICS:
 185 (A) LENGTH: 57 base pairs
 186 (B) TYPE: nucleic acid
 187 (C) STRANDEDNESS: single
 188 (D) TOPOLOGY: linear
 190 (ii) MOLECULE TYPE: cDNA
 192 (iii) HYPOTHETICAL: NO
 194 (iv) ANTI-SENSE: NO
 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
 200 TATTACTGTC AGCAGTATNN KNNKNNKNNK ACTTCGGCG GAGGGACCAA GGTGGAG 57
 202 (2) INFORMATION FOR SEQ ID NO: 6:
 204 (i) SEQUENCE CHARACTERISTICS:
 205 (A) LENGTH: 21 base pairs
 206 (B) TYPE: nucleic acid
 207 (C) STRANDEDNESS: single
 208 (D) TOPOLOGY: linear
 210 (ii) MOLECULE TYPE: cDNA
 212 (iii) HYPOTHETICAL: NO
 214 (iv) ANTI-SENSE: YES
 218 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
 220 AATACGACTC ACTATAGGGC G 21
 222 (2) INFORMATION FOR SEQ ID NO: 7:
 224 (i) SEQUENCE CHARACTERISTICS:
 225 (A) LENGTH: 48 base pairs
 226 (B) TYPE: nucleic acid
 227 (C) STRANDEDNESS: single
 228 (D) TOPOLOGY: linear
 230 (ii) MOLECULE TYPE: cDNA
 232 (iii) HYPOTHETICAL: NO
 234 (iv) ANTI-SENSE: NO
 238 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
 240 TATTACTGTC AGCAGTATNN KNNKNNKNNK ACTTCGGCG GAGGGACC 48
 242 (2) INFORMATION FOR SEQ ID NO: 8:
 244 (i) SEQUENCE CHARACTERISTICS:
 245 (A) LENGTH: 60 base pairs

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246 (B) TYPE: nucleic acid
 247 (C) STRANDEDNESS: single
 248 (D) TOPOLOGY: linear
 250 (ii) MOLECULE TYPE: cDNA
 252 (iii) HYPOTHETICAL: NO
 254 (iv) ANTI-SENSE: NO
 258 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
 260 TATTACTGTC AGCAGTATNN KNNKNNKNNK NNKACTTTCG GCGGAGGGAC CAAGGTGGAG 60
 263 (2) INFORMATION FOR SEQ ID NO: 9:
 265 (i) SEQUENCE CHARACTERISTICS:
 266 (A) LENGTH: 51 base pairs
 267 (B) TYPE: nucleic acid
 268 (C) STRANDEDNESS: single
 269 (D) TOPOLOGY: linear
 271 (ii) MOLECULE TYPE: cDNA
 273 (iii) HYPOTHETICAL: NO
 275 (iv) ANTI-SENSE: NO
 279 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
 281 TATTACTGTC AGCAGTATNN KNNKNNKNNK NNKACTTTCG GCGGAGGGAC C 51
 283 (2) INFORMATION FOR SEQ ID NO: 10:
 285 (i) SEQUENCE CHARACTERISTICS:
 286 (A) LENGTH: 75 base pairs
 287 (B) TYPE: nucleic acid
 288 (C) STRANDEDNESS: single
 289 (D) TOPOLOGY: linear
 291 (ii) MOLECULE TYPE: cDNA
 293 (iii) HYPOTHETICAL: NO
 295 (iv) ANTI-SENSE: NO
 299 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
 301 GATTTGCAG TGTATTACTG TCAGCAGTAT NNKNNKNNK NNKNNKNNKAC TTTCGGCGGA 60
 303 GGGACCAAGG TGGAG 75
 305 (2) INFORMATION FOR SEQ ID NO: 11:
 307 (i) SEQUENCE CHARACTERISTICS:
 308 (A) LENGTH: 54 base pairs
 309 (B) TYPE: nucleic acid
 310 (C) STRANDEDNESS: single
 311 (D) TOPOLOGY: linear
 313 (ii) MOLECULE TYPE: cDNA
 315 (iii) HYPOTHETICAL: NO
 317 (iv) ANTI-SENSE: NO
 321 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
 323 TATTACTGTC AGCAGTATNN KNNKNNKNNK NNKNNKACTT TCGGCAGGAGG GACC 54
 325 (2) INFORMATION FOR SEQ ID NO: 12:
 327 (i) SEQUENCE CHARACTERISTICS:
 328 (A) LENGTH: 75 base pairs
 329 (B) TYPE: nucleic acid
 330 (C) STRANDEDNESS: single
 331 (D) TOPOLOGY: linear
 333 (ii) MOLECULE TYPE: cDNA

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335 (iii) HYPOTHETICAL: NO
 337 (iv) ANTI-SENSE: NO
 341 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
 343 GATTTGCAG TGTATTACTG TNNKNNKNNK NNKNNKNNKN NKNNKNNKNN KTTCGGCGGA 60
 345 GGGACCAAGG TGGAG 75

347 (2) INFORMATION FOR SEQ ID NO: 13:
 349 (i) SEQUENCE CHARACTERISTICS:
 350 (A) LENGTH: 70 base pairs
 351 (B) TYPE: nucleic acid
 352 (C) STRANDEDNESS: single
 353 (D) TOPOLOGY: linear
 355 (ii) MOLECULE TYPE: cDNA
 357 (iii) HYPOTHETICAL: NO
 359 (iv) ANTI-SENSE: YES
 363 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
 365 GTTCCACCTT GGTCCCTTGG CCGAAMNNMN NMNNMNNMNN MNNMNNMNNA CAGTAGTACA 60
 367 CTGCAAAATC 70

369 (2) INFORMATION FOR SEQ ID NO: 14:
 371 (i) SEQUENCE CHARACTERISTICS:
 372 (A) LENGTH: 76 base pairs
 373 (B) TYPE: nucleic acid
 374 (C) STRANDEDNESS: single
 375 (D) TOPOLOGY: linear
 377 (ii) MOLECULE TYPE: cDNA
 379 (iii) HYPOTHETICAL: NO
 381 (iv) ANTI-SENSE: YES
 385 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
 387 GTTCCACCTT GGTCCCTTGG CCGAAMNNMN NMNNMNNMNN MNNMNNMNMM NNMMNNACAGT 60
 389 AGTACACTGC AAAATC 76

391 (2) INFORMATION FOR SEQ ID NO: 15:
 393 (i) SEQUENCE CHARACTERISTICS:
 394 (A) LENGTH: 94 base pairs
 395 (B) TYPE: nucleic acid
 396 (C) STRANDEDNESS: single
 397 (D) TOPOLOGY: linear
 399 (ii) MOLECULE TYPE: cDNA
 401 (iii) HYPOTHETICAL: NO
 403 (iv) ANTI-SENSE: YES
 407 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
 409 GTTCCACCTT GGTCCCTTGG CCGAAMNNMN NMNNMNNMNN MNNMNNMNMM NNMMNNNNMN 60
 411 NMNNMNNMNN MNNAAGTAG TACACTGCAA AATC 94

413 (2) INFORMATION FOR SEQ ID NO: 16:
 415 (i) SEQUENCE CHARACTERISTICS:
 416 (A) LENGTH: 25 base pairs
 417 (B) TYPE: nucleic acid
 418 (C) STRANDEDNESS: single
 419 (D) TOPOLOGY: linear
 421 (ii) MOLECULE TYPE: cDNA
 423 (iii) HYPOTHETICAL: NO

VERIFICATION SUMMARY

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L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]